	Application No.	Applicant(s)
Notice of Allowability	10/790,699	KAWAKAMI ET AL.
	Examiner	Art Unit
	Timothy J. Henn	2622
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to the response filed 13 September 2007.		
2. The allowed claim(s) is/are <u>1-8</u> .		
 3.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	• •
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	e .
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. Examiner's Amendr	ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	
	SUF	LIN YE PERVISORY PATENT EXAMINER

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael E. Fogarty (Reg. No. 36,139) on 30 July 2008.

The application has been amended as follows:

In the specification, page 7, after line 16 add --FIG. **7B** illustrates the results of shading--

Response to Arguments

2. Applicant's arguments, see response, filed 13 September 2007, with respect to claims 1-8 have been fully considered and are persuasive. The rejection of claims 1-8 has been withdrawn.

Drawings

3. The corrected drawings were received on 13 September 2007. These drawings are accepted.

Allowable Subject Matter

4. Claims 1-8 are allowed.

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5. The following is an examiner's statement of reasons for allowance: The prior art discloses lens shading correction systems and methods which use approximation functions and distance values to determine correction data (see for example, Yamashita, US 5,343,302; Ban, US 5,818,523). The prior art further discloses shading correction systems and methods which base correction values on a plurality of segments of the image (see for example, Goto et al). However, the prior art does not teach or fairly suggest a lens shading correction system or method in which a distance value is obtained from an optical-axis position to the pixel, and correction data is obtained for the pixel by reference to an approximation function that indicates relation between distance values and correction data for lens shading correction, and the pixel value is corrected based on the obtained correction data, wherein the approximation function is divided into a plurality of segments and represented by quadratic functions in the respective segments, the quadratic functions each being defined by a predetermined number of the sample points. While it is known to provide approximation functions defined by quadratic equations for shading correction, the prior art does not teach or suggest dividing the function into a plurality of segments as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

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6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy J. Henn whose telephone number is (571)272-7310. The examiner can normally be reached on M-F 11-7.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lin Ye can be reached on (571) 272-7372. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TJH 7/30/2008

LIN YE SUPERVISORY PATENT EXAMINER